ELSEVIER

Journal of Alloys and Compounds 255 (1997) 267

Journal of ALLOYS AND COMPOUNDS

Author Index of Volume 255

Adachi, G.-Y., 117
Adachi, H., 24
Altunbaş, M., 5
Alvarez, I., 74
André, G., 31
Aoki, K., 253

Baggio-Saitovitch, E., 155
Balasubramaniam, R., 130
Bangwie, Z., 231
Bétourné, E., 91
Bolwin, H., 169
Bourée, F., 31
Brese, N.E., 122
Buschow, K.H.J., 60, 67

Cataldo, L., 161
Çelebi, S., 5
Chen, X., 236, 262
Chiba, A., 253
Cohen-Adad, M.Th., 161
Connerade, J.-P., 79
Conrad, M., 178
Corré, S., 117

Degen, T., 178
DiSalvo, F.J., 122
Diviš, M., 11
Drews, A.R., 243

Elding-Pontén, M., 221
Eschrig, H., 11

Filoti, G., 60
Flacke, F., 149
Franzen, H.F., 110
Fruchart, D., 117
Fukuda, K., 18
Funasaka, H., 24

Gencer, A., 5
Ge, Y., 231
Gotoh, Y., 117
Grin, Y., 203
Guénée, L., 195

Harbrecht, B., 178
Hasegawa, K., 98
Heier, K.R., 190
Herbertz, R., 178
Huang, J.Y., 55

Ibers, J.A., 106

Jacobs, H., 149
Jen, S.U., 55

Kim, D.-M., 248
Kim, J.-W., 248
Kleinke, H., 110
Kockelmann, W., 149
Konashi, K., 98
Kumar, P., 130
Kumar, S., 135
Kuncser, V., 60

Latroche, M., 195
Lee, J.-Y., 43, 248
Lee, H.-I., 248
Lee, S.-M., 248
Lefevre, A., 161
Leute, V., 169
Li, X.G., 253
Lidin, S., 221
Lingling, W., 231
Liu, B.-H., 43
Liu, S., 102
Lizhong, W., 1
Llanos, J., 227
Luo, H., 239

Masumoto, T., 253
Mentzen, B.F., 161
Minato, K., 18
Mujica, C., 227

Nakamura, Y., 24
Naruke, H., 183
Nezir, S., 5
Nirupama, C.V., 142

Oda, Y., 24
Ohashi, H., 18
Oleś, A., 31

Passamani, E.C., 155
Paul-Boncour, V., 195
Pell, M.A., 106
Penc, B., 31
Peng, D.-L., 50
Percheron-Guégan, A., 195
Peters, E.-M., 227
Peters, K., 227
Pico, C., 74
Poeppelmeier, K.R., 190

Ramaprabhu, S., 142
Richter, M., 11
Rodríguez-Carvajal, J., 67
Rosenberg, M., 60
Roth, R.S., 243

Sakaguchi, H., 117
Salamakha, P., 209
Sato, S., 18
Savin, A., 203
Schöberl, T., 135
Schobinger-Papamantellos, P., 67
Shenxin, L., 1
Shiokawa, Y., 98
Sikora, W., 31
Stenberg, L., 221
Stern, C.L., 190
Su, Q., 102
Sumiyama, K., 50
Suzuki, K., 50, 98
Szytuła, A., 31

Takahashi, M., 98
Takano, M., 18
Touboul, M., 91
Trail, S.S., 122

Ulloa, C., 227

Vanderah, T.A., 243
Veiga, M.L., 74
von Schnering, H.G., 203, 227
von Wensierski, H., 169

Wagner, F., 203
Wang, X., 190
Wangyu, H., 231
Wedig, U., 203
Wei, C.T., 55
Wong-Ng, W., 243
Wu, E.J., 106
Wu, L., 236, 262

Xuyi, Z., 1

Yamane, H., 122
Yamase, T., 183
Yanmaz, E., 5
Yifang, O., 231
Yuanbin, C., 1

Zeppenfeld, A., 169
Zhan, W., 236, 262
Zhou, M., 239
Zygmunt, A., 31

Elsevier Science S.A.

ELSEVIER

Journal of Alloys and Compounds 255 (1997) 269–272

Journal of ALLOYS AND COMPOUNDS

Subject Index of Volume 255

Absorption
hydrogen solubility and thermodynamics of hydrogen absorption in palladium rich binary $Pd_{1-x}Ho_x$ ($x = 0.05$ and 0.08) solid solution alloys 142
Actinide intermetallic compounds
magnetism and magnetocrystalline anisotropy of Np_2T_2X (T = Co, Ni, Ru, Rh, Pd, Ir, Pt; X = In, Sn) compounds derived from density functional calculations 11
Alkali-metal copper–iron sulphides
structure of $Ba_2Cu_3S_2[VS_4]$, a new alkaline-earth copper thiovanadate 227
Alloy film
post-annealing effect on transport properties of Co–Pd alloy films 55
Aluminium
depletion of lithium due to surface oxidation: An investigation of an Al–Li-sheet by Auger-spectroscopy 135
Amalgam
preparation of high purity uranium metal from aqueous solutions 98
Amorphous
amorphization of R–Al intermetallic compounds by hydrogenation 253
Anneal
post-annealing effect on transport properties of Co–Pd alloy films 55
Annealing
effect of heat treatment on the structure and magnetic properties of Fe–N and Fe–Ti–N alloy films 50
Auger spectroscopy
depletion of lithium due to surface oxidation: An investigation of an Al–Li-sheet by Auger-spectroscopy 135
Austenitic stainless steels
determination of hydrogen diffusivity in austenitic stainless steels by subscale microhardness profiling 130
Azide
the crystal structure of $Sr_6Cu_3N_5$ with isolated, bent $(Cu_2^{I}N_3)^{7-}$ anions and the single crystal structural determination of SrCuN 122

Carbon monoxide
the hydrogen confinement in $LaNi_5$ and $LaNi_5Zr_{0.1}$ hydrides using poisonous gases 117
Ceramics
AC losses and irreversibility line of Bi–(Pb)–Sr–Ca–Cu–O high-T_c superconductors 5
Cesium molybdate
thermal expansion and thermal conductivity of cesium molybdate 18
Charge–discharge cycle
the deterioration behavior of a metal hydride electrode based on the $V_{0.66}Ti_{0.22}Ni_{0.12}$ alloy 248
Co/P substitution
the Co/P exchange in $Hf_5Co_{1+x}P_{3-x}$ and its consequences for the electronic structure and magnetic properties 110
Crystal
the crystal structure of $Sr_6Cu_3N_5$ with isolated, bent $(Cu_2^{I}N_3)^{7-}$ anions and the single crystal structural determination of SrCuN 122
structure and crystallization of amorphous Fe–Mo–B alloys obtained by electroless plating 231
Crystal growth
preparation and crystal structure of $Sr_6TiNb_4O_{18}$ 243
Crystallization
amorphization of R–Al intermetallic compounds by hydrogenation 253
Crystal structure
synthesis and crystal structure determination of $Na_2[Sn(NH_2)_6]$ and $Na_2[Sn(ND_2)_6]$ by X-ray and neutron diffraction 149
synthesis and crystal structure of Hf_2Te 178
structure of dialuminiohexalutetiopentakis(hexaniobate): comparison with europium and erbium analogues 183
interaction of neodymium and germanium with d-elements. Phase diagrams and crystal structure of ternary compounds 209
structure of $Ba_2Cu_3S_2[VS_4]$, a new alkaline-earth copper thiovanadate 227
Rietveld X-ray spectrum analysis for $Tb_{0.27}Dy_{0.73}Fe_{2-x}Si_x$ 236
Cubic
effects of Y-doping on the formation, structure and properties of iron oxide 239
Cu_7In_3
the B8 type structure of Cu_7In_3 221

d-element
interaction of neodymium and germanium with d-elements. Phase diagrams and crystal structure of ternary compounds 209
Density functional calculations
magnetism and magnetocrystalline anisotropy of Np_2T_2X (T = Co, Ni, Ru, Rh, Pd, Ir, Pt; X = In, Sn) compounds derived from density functional calculations 11
Deterioration behavior
the deterioration behavior of a metal hydride electrode based on the $V_{0.66}Ti_{0.22}Ni_{0.12}$ alloy 248
Discrete–variational Dirac–Slater
discrete–variational Dirac–Slater calculation of uranyl(VI) nitrate complexes 24

Electroless plating
structure and crystallization of amorphous Fe–Mo–B alloys obtained by electroless plating 231
Electrolysis
preparation of high purity uranium metal from aqueous solutions 98

Elsevier Science S.A.

Electron beam float zoning
microsegregation phenomenon in Terfenol-D rods grown by electron beam zoning method 262
Electronic structure
the Co/P exchange in $Hf_5Co_{1+x}P_{3-x}$ and its consequences for the electronic structure and magnetic properties 110
Eu
high pressure luminescence and pressure induced phase transition for $LiYF_4$:Eu 1

Fe–Mo–B alloys
structure and crystallization of amorphous Fe–Mo–B alloys obtained by electroless plating 231
Fe–N film
effect of heat treatment on the structure and magnetic properties of Fe–N and Fe–Ti–N alloy films 50
Fe–Ti–N film
effect of heat treatment on the structure and magnetic properties of Fe–N and Fe–Ti–N alloy films 50
Flux
the crystal structure of $Sr_6Cu_3N_5$ with isolated, bent $(Cu_2^{I}N_3)^{7-}$ anions and the single crystal structural determination of SrCuN 122

Germanium
interaction of neodymium and germanium with d-elements. Phase diagrams and crystal structure of ternary compounds 209
Grain size
post-annealing effect on transport properties of Co–Pd alloy films 55

Hafnium compounds
synthesis and crystal structure of Hf_2Te 178
Heat treatment
depletion of lithium due to surface oxidation: An investigation of an Al–Li-sheet by Auger-spectroscopy 135
High pressure
high pressure luminescence and pressure induced phase transition for $LiYF_4$:Eu 1
High purity metal
preparation of high purity uranium metal from aqueous solutions 98
High temperature synthesis
synthesis and crystal structure of Hf_2Te 178
Hydrogen
multiplateau isotherms related to a multiphase behaviour in the YFe_2-D_2 system 195
amorphization of R–Al intermetallic compounds by hydrogenation 253
Hydrogen diffusivity
determination of hydrogen diffusivity in austenitic stainless steels by subscale microhardness profiling 130
Hydrogen solubility
hydrogen solubility and thermodynamics of hydrogen absorption in palladium rich binary $Pd_{1-x}Ho_x$ ($x = 0.05$ and 0.08) solid solution alloys 142
Hydrogen storage
the hydrogen confinement in $LaNi_5$ and $LaNi_5Zr_{0.1}$ hydrides using poisonous gases 117

Immiscible system
solubility study of Sn and Cr films prepared by vapor condensation 155
Intermetallic
multiplateau isotherms related to a multiphase behaviour in the YFe_2-D_2 system 195
amorphization of R–Al intermetallic compounds by hydrogenation 253
Intermetallics
magnetic ordering of $RNiSb_2$ (R = Pr, Nd and Tb) compounds studied by neutron diffraction and magnetic measurements 31
Ion storage
soft chemistry and reversible ion storage: The underlying atomic physics 79
Itinerant magnetism
magnetism and magnetocrystalline anisotropy of Np_2T_2X (T = Co, Ni, Ru, Rh, Pd, Ir, Pt; X = In, Sn) compounds derived from density functional calculations 11

$LaNi_5$
the hydrogen confinement in $LaNi_5$ and $LaNi_5Zr_{0.1}$ hydrides using poisonous gases 117
Lanthanides
structure of dialuminiohexalutetiopentakis(hexaniobate): comparison with europium and erbium analogues 183
Laser flash method
thermal expansion and thermal conductivity of cesium molybdate 18
Laves phase
multiplateau isotherms related to a multiphase behaviour in the YFe_2-D_2 system 195
Lithium
depletion of lithium due to surface oxidation: An investigation of an Al–Li-sheet by Auger-spectroscopy 135
Lithium borates
synthesis of lithium borates ($B/Li \geq 3$) as LiB_3O_5 by dehydration of hydrated precursors 91
Lithium depletion
depletion of lithium due to surface oxidation: An investigation of an Al–Li-sheet by Auger-spectroscopy 135
$LiYF_4$
high pressure luminescence and pressure induced phase transition for $LiYF_4$:Eu 1
Luminescence
high pressure luminescence and pressure induced phase transition for $LiYF_4$:Eu 1
sol–gel synthesis and luminescence of $Y_4Al_2O_9$:RE^{3+} (RE = Eu, Tb) 102
Lutetium
structure of dialuminiohexalutetiopentakis(hexaniobate): comparison with europium and erbium analogues 183

Magnetic moment
site occupation and ^{57}Fe Mössbauer spectra of $RE_6Fe_{14-x}M_x$ with RE = Nd, Pr and M = Ga, Al 60
Magnetic ordering
magnetic ordering of $RNiSb_2$ (R = Pr, Nd and Tb) compounds studied by neutron diffraction and magnetic measurements 31
Magnetic properties
effect of heat treatment on the structure and magnetic properties of Fe–N and Fe–Ti–N alloy films 50
the Co/P exchange in $Hf_5Co_{1+x}P_{3-x}$ and its consequences for the electronic structure and magnetic properties 110
Magnetic susceptibility
magnetic characterization of the $LaNi_{1-x}Sb_xO_3$ ($0 \leq x \leq 1/3$) perovskite-like system 74

Magnetocrystalline anisotropy
magnetism and magnetocrystalline anisotropy of Np_2T_2X (T = Co, Ni, Ru, Rh, Pd, Ir, Pt; X = In, Sn) compounds derived from density functional calculations 11
Magnetostriction
microsegregation phenomenon in Terfenol-D rods grown by electron beam zoning method 262
Metal hydride electrodes
the deterioration behavior of a metal hydride electrode based on the $V_{0.66}Ti_{0.22}Ni_{0.12}$ alloy 248
Metastable phase
solubility study of Sn and Cr films prepared by vapor condensation 155
Microhardness profiling
determination of hydrogen diffusivity in austenitic stainless steels by subscale microhardness profiling 130
Microsegregation
microsegregation phenomenon in Terfenol-D rods grown by electron beam zoning method 262
Microwave dielectric ceramics
preparation and crystal structure of $Sr_6TiNb_4O_{18}$ 243
Mössbauer spectroscopy
site occupation and ^{57}Fe Mössbauer spectra of $RE_6Fe_{14-x}M_x$ with RE = Nd, Pr and M = Ga, Al 60

Neodymium
interaction of neodymium and germanium with d-elements. Phase diagrams and crystal structure of ternary compounds 209
Neutron diffraction
synthesis and crystal structure determination of $Na_2[Sn(NH_2)_6]$ and $Na_2[Sn(ND_2)_6]$ by X-ray and neutron diffraction 149
Nickel oxides
magnetic characterization of the $LaNi_{1-x}Sb_xO_3$ ($0 \leq x \leq 1/3$) perovskite-like system 74
Nitride
the crystal structure of $Sr_6Cu_3N_5$ with isolated, bent $(Cu_2^{I}N_3)^{7-}$ anions and the single crystal structural determination of SrCuN 122
Nitridometallate
the crystal structure of $Sr_6Cu_3N_5$ with isolated, bent $(Cu_2^{I}N_3)^{7-}$ anions and the single crystal structural determination of SrCuN 122

Ordered phases
ordering phenomena and demixing in the quasiternary system $Ga_2Te_3/Hg_3Te_3/In_2Te_3$ 169
Orthorhombic perovskites
magnetic characterization of the $LaNi_{1-x}Sb_xO_3$ ($0 \leq x \leq 1/3$) perovskite-like system 74

$Pd_{1-x}Ho_x$
hydrogen solubility and thermodynamics of hydrogen absorption in palladium rich binary $Pd_{1-x}Ho_x$ ($x = 0.05$ and 0.08) solid solution alloys 142
Phase diagram
interaction of neodymium and germanium with d-elements. Phase diagrams and crystal structure of ternary compounds 209
Phase diagrams
ordering phenomena and demixing in the quasiternary system $Ga_2Te_3/Hg_3Te_3/In_2Te_3$ 169
Phase transformation
amorphization of R–Al intermetallic compounds by hydrogenation 253
Phase transition(s)
high pressure luminescence and pressure induced phase transition for $LiYF_4$:Eu 1
ordering phenomena and demixing in the quasiternary system $Ga_2Te_3/Hg_3Te_3/In_2Te_3$ 169
Phosphides
the Co/P exchange in $Hf_5Co_{1+x}P_{3-x}$ and its consequences for the electronic structure and magnetic properties 110
Poisoning
the hydrogen confinement in $LaNi_5$ and $LaNi_5Zr_{0.1}$ hydrides using poisonous gases 117
Polyoxometalate
structure of dialuminiohexalutetiopentakis(hexaniobate): comparison with europium and erbium analogues 183
Polyoxoniobate
structure of dialuminiohexalutetiopentakis(hexaniobate): comparison with europium and erbium analogues 183
Powder diagrams
synthesis of lithium borates ($B/Li \geq 3$) as LiB_3O_5 by dehydration of hydrated precursors 91

Rare earth
sol–gel synthesis and luminescence of $Y_4Al_2O_9:RE^{3+}$ (RE = Eu, Tb) 102
Rare earth iron compounds
site occupation and ^{57}Fe Mössbauer spectra of $RE_6Fe_{14-x}M_x$ with RE = Nd, Pr and M = Ga, Al 60
Reversible reactions
soft chemistry and reversible ion storage: The underlying atomic physics 79
Rietveld analysis
Rietveld X-ray spectrum analysis for $Tb_{0.27}Dy_{0.73}Fe_{2-x}Si_x$ 236
$RNiSb_2$ compounds
magnetic ordering of $RNiSb_2$ (R = Pr, Nd and Tb) compounds studied by neutron diffraction and magnetic measurements 31

Single-crystal structure determination
preparation and crystal structure of $Sr_6TiNb_4O_{18}$ 243
Sm_2Co_{17}-type magnets
the ternary system Sm–Co–Zr isoplethic sections at Co = 87 and 85 at% 161
Sn alloys
solubility study of Sn and Cr films prepared by vapor condensation 155
^{119}Sn Mössbauer spectroscopy
solubility study of Sn and Cr films prepared by vapor condensation 155
Sodium hexaamidostannate(IV)
synthesis and crystal structure determination of $Na_2[Sn(NH_2)_6]$ and $Na_2[Sn(ND_2)_6]$ by X-ray and neutron diffraction 149
Soft chemistry
soft chemistry and reversible ion storage: The underlying atomic physics 79
Sol–gel
sol–gel synthesis and luminescence of $Y_4Al_2O_9:RE^{3+}$ (RE = Eu, Tb) 102
Solid–liquid equilibria
the ternary system Sm–Co–Zr isoplethic sections at Co = 87 and 85 at% 161
Solid solutions
ordering phenomena and demixing in the quasiternary system $Ga_2Te_3/Hg_3Te_3/In_2Te_3$ 169

Solid-state compounds
synthesis and characterization of KTh_2SeE_6, KTh_2Te_6 and $CsTh_2Se_6$ 106
Sputter-deposition
effect of heat treatment on the structure and magnetic properties of Fe–N and Fe–Ti–N alloy films 50
$Sr_6TiNb_4O_{18}$
preparation and crystal structure of $Sr_6TiNb_4O_{18}$ 243
Strontium titanium niobium oxide
preparation and crystal structure of $Sr_6TiNb_4O_{18}$ 243
Structural vacancies
ordering phenomena and demixing in the quasiternary system $Ga_2Te_3/Hg_3Te_3/In_2Te_3$ 169
Structure
effect of heat treatment on the structure and magnetic properties of Fe–N and Fe–Ti–N alloy films 50
the crystal structure of $Sr_6Cu_3N_5$ with isolated, bent $(Cu^I_2N_3)^{7-}$ anions and the single crystal structural determination of SrCuN 122
structure and crystallization of amorphous Fe–Mo–B alloys obtained by electroless plating 231
amorphization of R–Al intermetallic compounds by hydrogenation 253
Sulfur dioxide
the hydrogen confinement in $LaNi_5$ and $LaNi_5Zr_{0.1}$ hydrides using poisonous gases 117
Superconductors
AC losses and irreversibility line of Bi–(Pb)–Sr–Ca–Cu–O high-T_c superconductors 5
Superstructures
the B8 type structure of Cu_7In_3 221
Surface oxidation
depletion of lithium due to surface oxidation: An investigation of an Al–Li-sheet by Auger-spectroscopy 135
Synthesis
synthesis of lithium borates ($B/Li \geq 3$) as LiB_3O_5 by dehydration of hydrated precursors 91
synthesis and characterization of KTh_2SeE_6, KTh_2Te_6 and $CsTh_2Se_6$ 106
synthesis and crystal structure determination of $Na_2[Sn(NH_2)_6]$ and $Na_2[Sn(ND_2)_6]$ by X-ray and neutron diffraction 149

Ternary intermetallics
site occupation and ^{57}Fe Mössbauer spectra of $RE_6Fe_{14-x}M_x$ with RE = Nd, Pr and M = Ga, Al 60
Tetragonal
effects of Y-doping on the formation, structure and properties of iron oxide 239
Thermal conductivity
thermal expansion and thermal conductivity of cesium molybdate 18
Thermal diffusivity
thermal expansion and thermal conductivity of cesium molybdate 18
Thermal expansion
thermal expansion and thermal conductivity of cesium molybdate 18
Thermal properties
synthesis of lithium borates ($B/Li \geq 3$) as LiB_3O_5 by dehydration of hydrated precursors 91
Thermodynamic
multiplateau isotherms related to a multiphase behaviour in the YFe_2-D_2 system 195
Thermodynamics
hydrogen solubility and thermodynamics of hydrogen absorption in palladium rich binary $Pd_{1-x}Ho_x$ ($x = 0.05$ and 0.08) solid solution alloys 142
ordering phenomena and demixing in the quasiternary system $Ga_2Te_3/Hg_3Te_3/In_2Te_3$ 169
Thin films
solubility study of Sn and Cr films prepared by vapor condensatior 155
Transition metal tellurides
synthesis and crystal structure of Hf_2Te 178
Transport properties
post-annealing effect on transport properties of Co–Pd alloy films 55
Trigonal prism and acentric
crystal structure of $Zn_{3.77}V_{1.54}Mo_{1.46}O_{12}$ containing ZnO_6 trigonal prisms 190

$[UO_2(NO_3)_2(H_2O)_2$
discrete–variational Dirac–Slater calculation of uranyl(VI) nitrate complexes 24
$[UO_2(NO_3)_2(TBP)_2]$
discrete–variational Dirac–Slater calculation of uranyl(VI) nitrate complexes 24
$[UO_2(NO_3)_2(TBPO)_2]$
discrete–variational Dirac–Slater calculation of uranyl(VI) nitrate complexes 24
$[UO_2(NO_3)_2(TMP)_2]$
discrete–variational Dirac–Slater calculation of uranyl(VI) nitrate complexes 24
Uranium metal
preparation of high purity uranium metal from aqueous solutions 98

V–Ti–Ni alloy
the deterioration behavior of a metal hydride electrode based on th $V_{0.66}Ti_{0.22}Ni_{0.12}$ alloy 248

X-ray diffraction
multiplateau isotherms related to a multiphase behaviour in the YFe_2-D_2 system 195
the B8 type structure of Cu_7In_3 221
Rietveld X-ray spectrum analysis for $Tb_{0.27}Dy_{0.73}Fe_{2-x}Si_x$ 236
preparation and crystal structure of $Sr_6TiNb_4O_{18}$ 243

Y-doped
effects of Y-doping on the formation, structure and properties of iron oxide 239
Yttrium aluminate
sol–gel synthesis and luminescence of $Y_4Al_2O_9$:RE^{3+}(RE = Eu, Tb) 102

$Zn_{3.77}V_{1.54}Mo_{1.46}O_{12}$ structure
crystal structure of $Zn_{3.77}V_{1.54}Mo_{1.46}O_{12}$ containing ZnO_6 trigonal prisms 190

γ-Fe_2O_3
effects of Y-doping on the formation, structure and properties of iron oxide 239